

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 7 AND MD 543 (RIVERSIDE PKWY/CRESWELL RD.) IN HARFORD COUNTY. MD 7 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. THE INTERSECTION CURRENTLY OPERATES AS AN EIGHT-PHASE FULL-TRAFFIC-ACTUATED CONTROLLER WITH AN EXCLUSIVE LEFT TURN PHASE FOR E.B. AND W.B. MD 7 AND AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR N.B. AND S.B. MD 543. THE CONTROLLER OPERATION WILL BE CHANGED FROM AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR N.B. AND S.B. MD 543 TO AN EXCLUSIVE LEFT TURN PHASE.

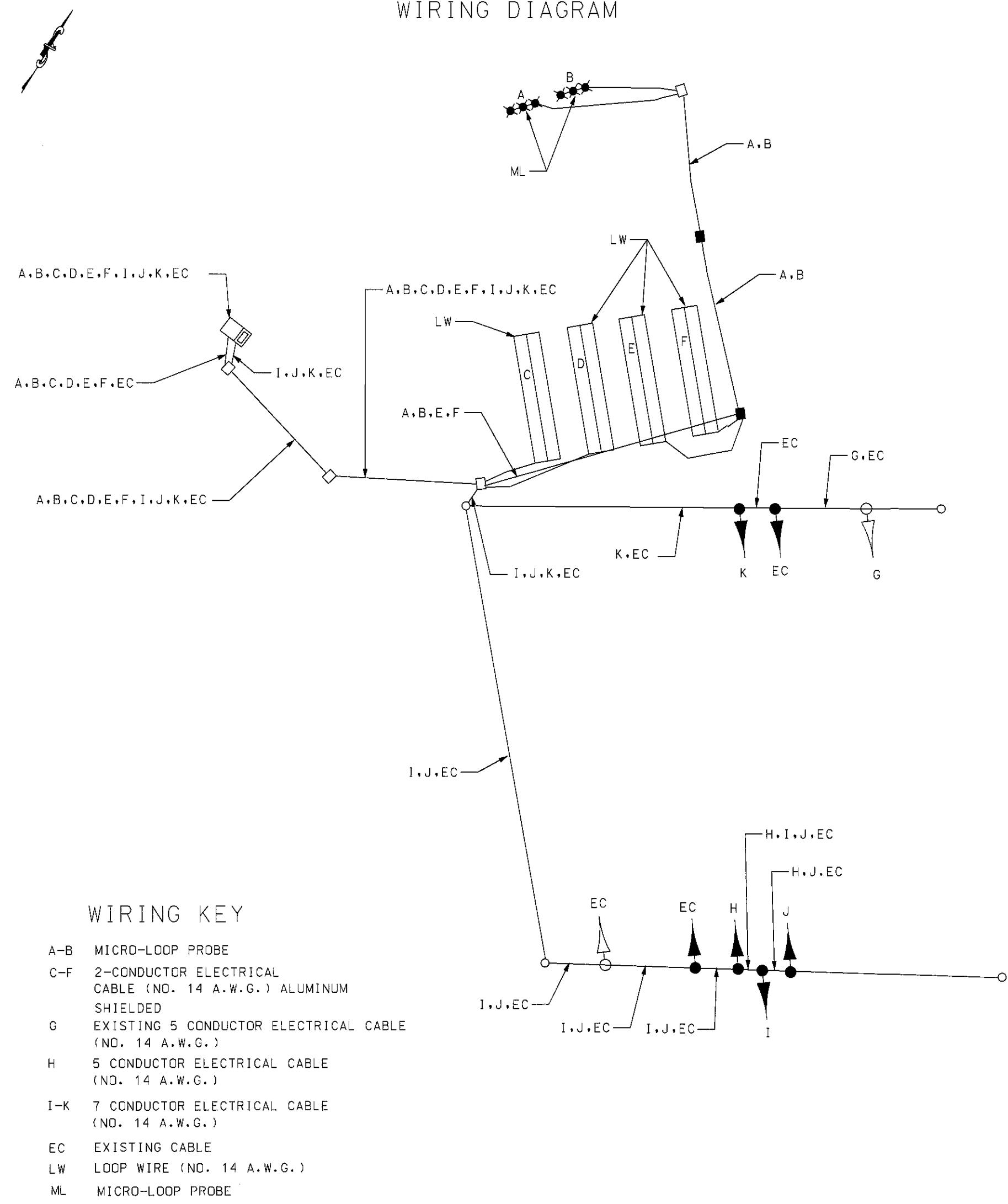
PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	<G-	<G-	R	R	<G-	<G-	R	R	<R-	<R-	R	R	<R-	<R-	R	R
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6															
PHASE 1 & 6	<G-	<G-	G	G	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	R	R
1 & 6 CHANGE	<Y-	<Y-	Y	Y	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	R	R
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	G	G	<R-	<R-	R	R	<R-	<R-	R	R
2 & 5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	G	G	<R-	<R-	R	R	<R-	<R-	R	R
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	G	G	<R-	<R-	R	R	<R-	<R-	R	R
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	Y	Y	<R-	<R-	R	R	<R-	<R-	R	R
PHASE 3 & 7	<R-	<R-	R	R	<R-	<R-	R	R	<G-	<G-	R	R	<G-	<G-	R	R
3 & 7 CHANGE	PHASE 3 & 7 CHANGE MAY CHANGE TO PHASE 3 & 8, 4 & 7 OR 4 & 8															
PHASE 3 & 8	<R-	<R-	R	R	<R-	<R-	R	R	<G-	<G-	G	G	<R-	<R-	R	R
3 & 8 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	<Y-	<Y-	Y	Y	<R-	<R-	R	R
PHASE 4 & 7	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	R	R	<Y-	<Y-	G	G
4 & 7 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	R	R	<Y-	<Y-	G	G
PHASE 4 & 8	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	G	G	<R-	<R-	G	G
4 & 8 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	<R-	<R-	Y	Y	<R-	<R-	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

EQUIPMENT LIST "B"

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5001	4 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW
5005	15 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
5006	40 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8011	18 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8028	2 EA	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8052	70 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8058	16 LF	FURNISH AND INSTALL 4 IN. X 4 IN. WOOD SUPPORT
8068	40 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8072	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8081	450 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
8084	15 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	950 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8087	1700 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 AWG)
8088	520 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
8091	325 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
---	1 EA	FURNISH AND INSTALL 4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
---	2 EA	RELOCATE EXISTING SIGN
---	2 EA	FURNISH AND INSTALL R10-5 SIGN (24" X 30") SPAN WIRE MOUNT
---	2 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") SPAN WIRE MOUNT

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652	
CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:	
MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 321-2781	MR. STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER - MAINTENANCE (410) 321-2761
MS. SUENETTE POPE ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 321-2841	

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANDOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		
ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

TRAFFIC CONCEPTS, INC.

325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 7 AND MD 543 (RIVERSIDE PKWY/CRESWELL RD.)

DRAWN BY: M.HOWELL	F.A.P. NO. 2293E G1	TS NO. 2293E G1	SHEET NO. 2 OF 2
CHECKED BY: J.ZAYDEL	S.H.A. NO. COUNTY: HARFORD	T.I.M.S. NO. F474	
SCALE: 1" = 20'	LOG MILE:		
DATE: 12-8-02			